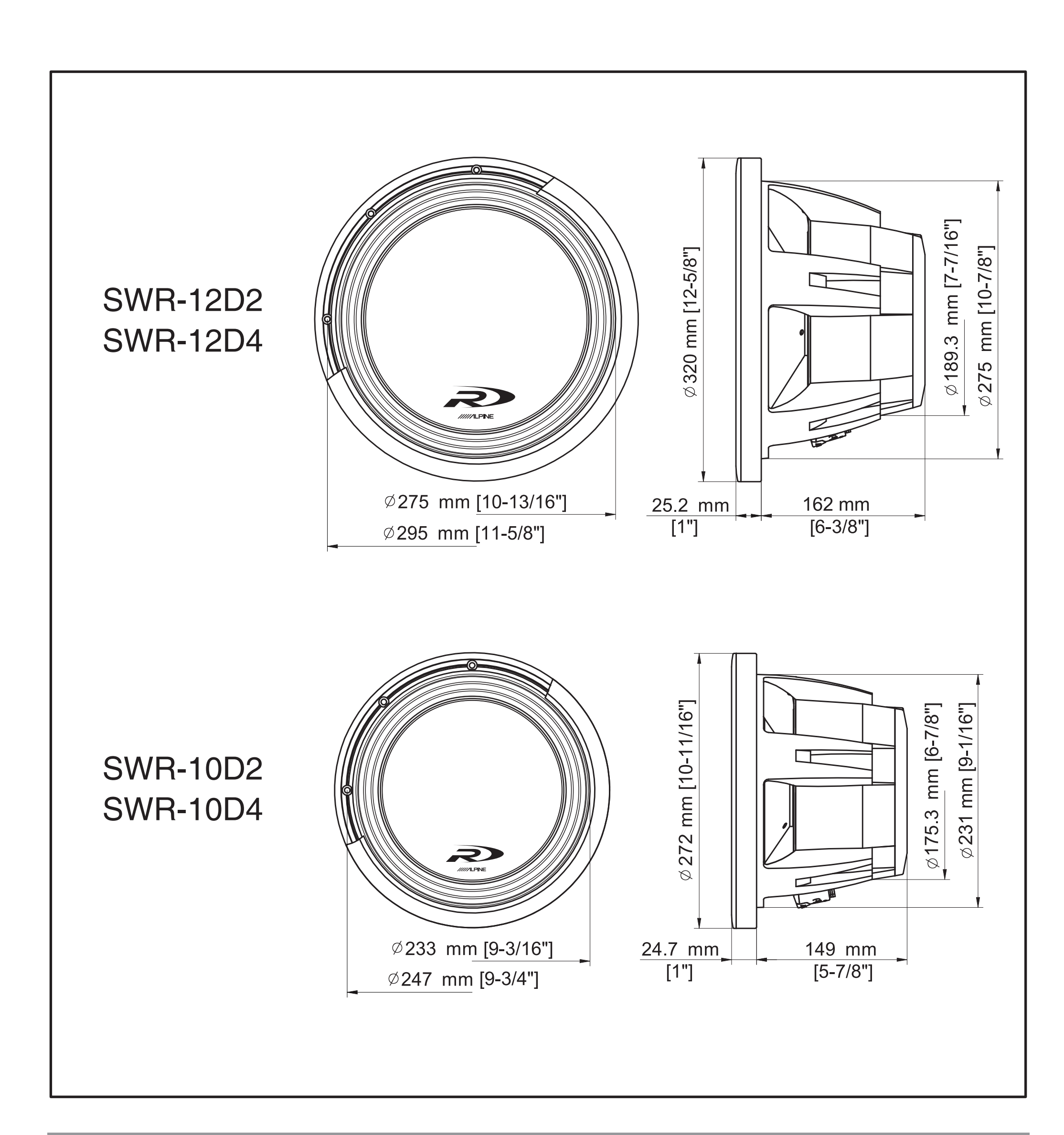


ALPINE ELECTRONICS MARKETING,INC.
1-7 Yukigaya-otsukamachi,
Ota-ku, Tokyo 145-0067, Japan
Tel: (03) 5499-4531

ALPINE ELECTRONICS OF AMERICA, INC.
19145 Gramercy Place, Torrance,
California 90501, U.S.A.
Tel: 1-800-ALPINE-1 (1-800-257-4631)

ALPINE ELECTRONICS OF CANADA, INC.
777 Supertest Road, Toronto,
Ontario M3J 2M9, Canada
Tel: (416) 736-6211

ALPINE ELECTRONICS OF AUSTRALIA PTY. LTD.
161-165 Princes Highway, Hallam
Victoria 3803, Australia
Tel: (03) 8787-1200

ALPINE ELECTRONICS DE ESPAÑA, S.A.
Portal de Gamarra 36, Pabellón 32
01013 Vitoria (Álava). APDO. 133, Spain
Tel: (945) 283-588

ALPINE ELECTRONICS GmbH
Wilhelm-Wagenfele-Straße 1-3
80807 München, Germany
Tel: (089) 324-2640

ALPINE ELECTRONICS (Benelux) GmbH
Leuvensesteenweg 510-B6
1930 Zaventem, Belgium
Tel: 02-7251315

ALPINE ELECTRONICS OF U.K., LTD.
Alpine House Earlplace Business Park,
Fletchamstead Highway, Coventry CV4, 9TW
United Kingdom
Tel: (2476) 719-500

ALPINE ELECTRONICS FRANCE S.A.R.L.
98,Rue de la Belle Etoile, Z.I. Paris Nord,
B.P. 50016, 95945, Roissy Charles de Gaulle
Cédex, France
Tel: (01) 4863-8989

ALPINE ITALIA S.p.A.
Viale C. Colombo 8,
20090 Trezzano Sul Naviglio (MI), Italy
Tel: (02) 484-781

Printed in CHINA



TYPE-R SUBWOOFER
HAUT-PARLEUR D'EXTRÊMES GRAVES TYPE-R
APPLICATION GUIDE
GUIDE D' APPLICATION

SWR-12D4

12 Inch Dual Voice Coil Subwoofer (4Ω)+(4Ω)
Haut-parleur d'extrêmes graves à double bobine 12 po (4Ω)+(4Ω)

SWR-12D2

12 Inch Dual Voice Coil Subwoofer (2Ω)+(2Ω)
Haut-parleur d'extrêmes graves à double bobine 12 po (2Ω)+(2Ω)

SWR-10D4

10 Inch Dual Voice Coil Subwoofer (4Ω)+(4Ω)
Haut-parleur d'extrêmes graves à double bobine 10 po (4Ω)+(4Ω)

SWR-10D2

10 Inch Dual Voice Coil Subwoofer (2Ω)+(2Ω)
Haut-parleur d'extrêmes graves à double bobine 10 po (2Ω)+(2Ω)

			Type-R			
			SWR-10D2	SWR-10D4	SWR-12D2	SWR-12D4
Ggneral Specifications			2Ω+2Ω	4Ω+4Ω	2Ω+2Ω	4Ω+4Ω
Sealed	Taille		10"		12"	
Frequency Response	Response en Fréquence		26Hz-200Hz		24Hz-200Hz	
Power Range	Plage de Puissance		300W-1000W RMS (efficace)			
Power Handling	Puisance Admissible		1000W RMS (efficace) / 3000W PEAK (de crête)			
Magnet Weight	Poids de l'aimant		111 oz		127 oz	
Voice Coil Diameter	Diamètre de la bobine		65.5 mm (2.6")			
Thiel-Small Parameters						
Sensitivity (1W/1m)	Sensibilité (1W/1m)	*SPL*	82 dB	82.1 dB	84.7 dB	84.9 dB
DC Resistance	Résistance CC	*Re*	1.95Ω+1.95Ω	3.8Ω+3.8Ω	1.95Ω+1.95Ω	3.8Ω+3.8Ω
Inductance	Inductance	*Le*	1.89 mH	3.04 mH	2.23 mH	3.33 mH
Free Air Resonance	Résonance à l'air libre	*Fs*	31 Hz	32 Hz	27 Hz	28 Hz
Equivalent Stiffness	Raiduer équivalente	*Vas*	18 L		46 L	
Mechanical Q	Q Méchanique	*Qms*	7.84	7.05	7.1	6.04
Electrical Q	Q Électrique	*Qes*	0.54	0.59	0.47	0.52
Total Q	Q Total	*Qts*	0.51	0.55	0.44	0.48
Cone Area	Surface du diaphragme	*Sd*	333cm²		479 cm²	
Linear Excursion	Displacement Linéare	Xmax (1-way)	20 mm			
Mechanical Travel	Déplacement Mécanique	Xmech (P-P)	70 mm		72 mm	

Note: Specifications subject to change without notice

ALPINE

4Ω + 4Ω

Example 1 One Amplifier + One Subwoofer

JUMPER / CAVALIER

2Ω

JUMPER / CAVALIER

8Ω

Example 3 Two Amplifiers + One Subwoofer

4Ω

4Ω

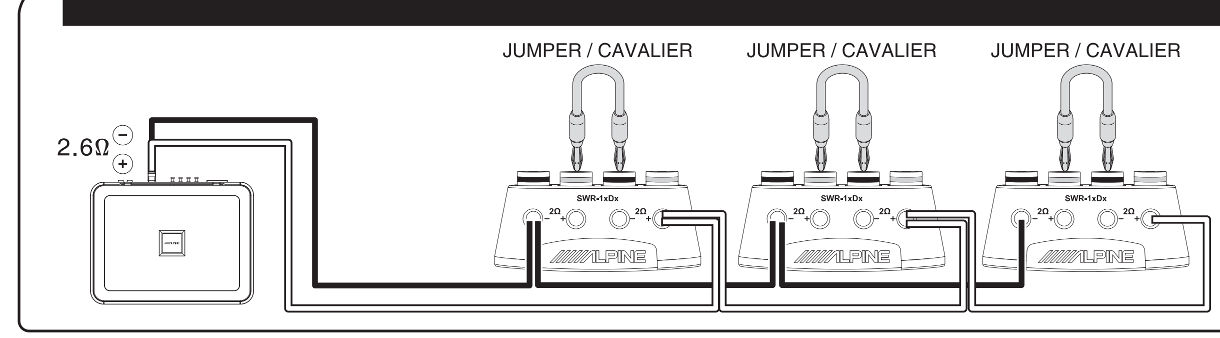
Example 5 One Amplifier + Two Subwoofers

JUMPER / CAVALIER

JUMPER / CAVALIER

4Ω

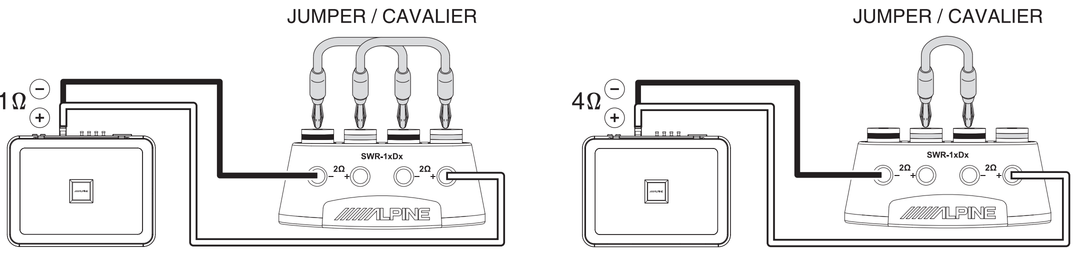
Example 7 One Amplifier + Three Subwoofers





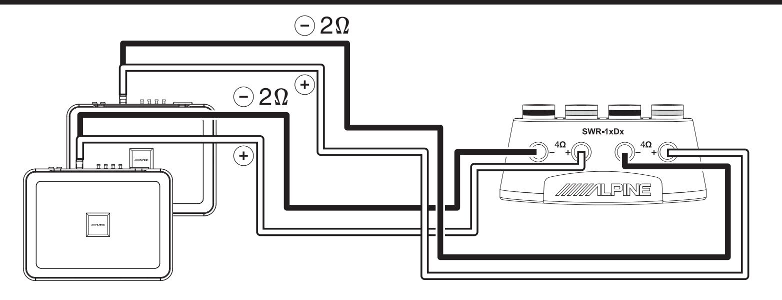
SWR-10D4 / SWR-12D4
SWR-10D2 / SWS-12D2

Example 2 One Amplifier + One Subwoofer

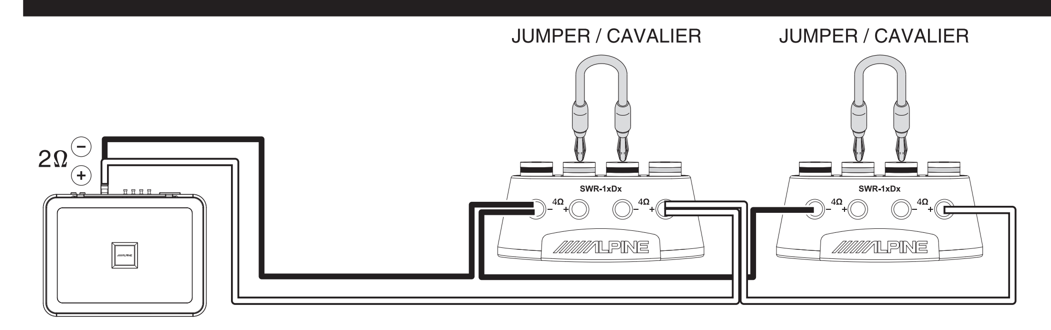


Caution ! Consult amplifier owner's manual for 1Ω connection.
Attention : lire le manuel de l'amplificateur pour la connexion à 1Ω .

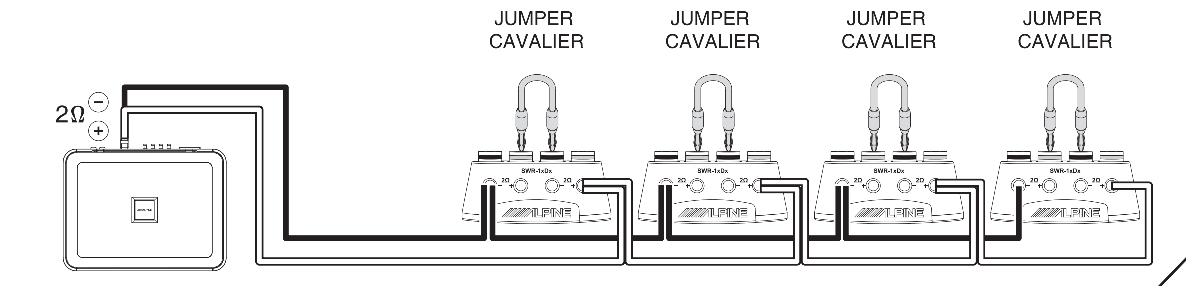
Example 4 Two Amplifiers + One Subwoofer



Example 6 One Amplifier and Two Subwoofers



Example 8 One Amplifier + Four Subwoofers



		SWR-10D2/D4	SWR-12D2/D4
Sealed Box Range	Net Internal Volume	0.4-0.85 ft^3	0.55-1.0 ft^3
Recommened Sealed Box	External Box Dimensions	12"x12"x10.5"	14"x14"x11"
	Gross Internal Volume	0.58 ft^3	0.85 ft^3
	Net Internal Volume	0.50 ft^3	0.75 ft^3
	F3, Qtc	D2: 46 Hz, 0.74 D4: 44 Hz, 0.79	D2: 45 Hz, 0.75 D4: 45 Hz, 0.81
Vented Box Range	Net Internal Volume	0.75-1.3 ft^3	1.0-1.5 ft^3
	Tuning	35-39 Hz	32-37 Hz
Recommened Vented Box	External Box Dimensions	23" x 12" x 11.5"	23" x 12.5" x 14"
	Gross Internal Volume	1.3 ft^3	1.71 ft^3
	Aire de l'évent (dimensions)	10 in^2 (10"x1")	12.5 in^2 (12.5"x1")
	Gross Internal Volume	20"	19"
	Vent Displacement	0.2 ft^3	0.23 ft^3
	Net Internal Volume (Vb)	1.0 ft^3	1.38 ft^3
	F3, ripple, Fb	D2: 29Hz, 6.1dB, 36Hz D4: 28Hz, 5.8dB, 36Hz	D2: 29Hz, 4.6dB, 35Hz D4: 29Hz, 4.4dB, 35Hz

Notes:
1) Recommended enclosure net Internal volume is based upon 3/4" (19mm) MDF enclosure construction.
2) Consult the table below for alternative enclosure net internal volume calculation.

Front Mount Displacement* (magnet in)	-0.08 ft^3	-0.10 ft^3
Reverse Mount Added Volume* (magnet out)	+0.05 ft^3	+0.09 ft^3

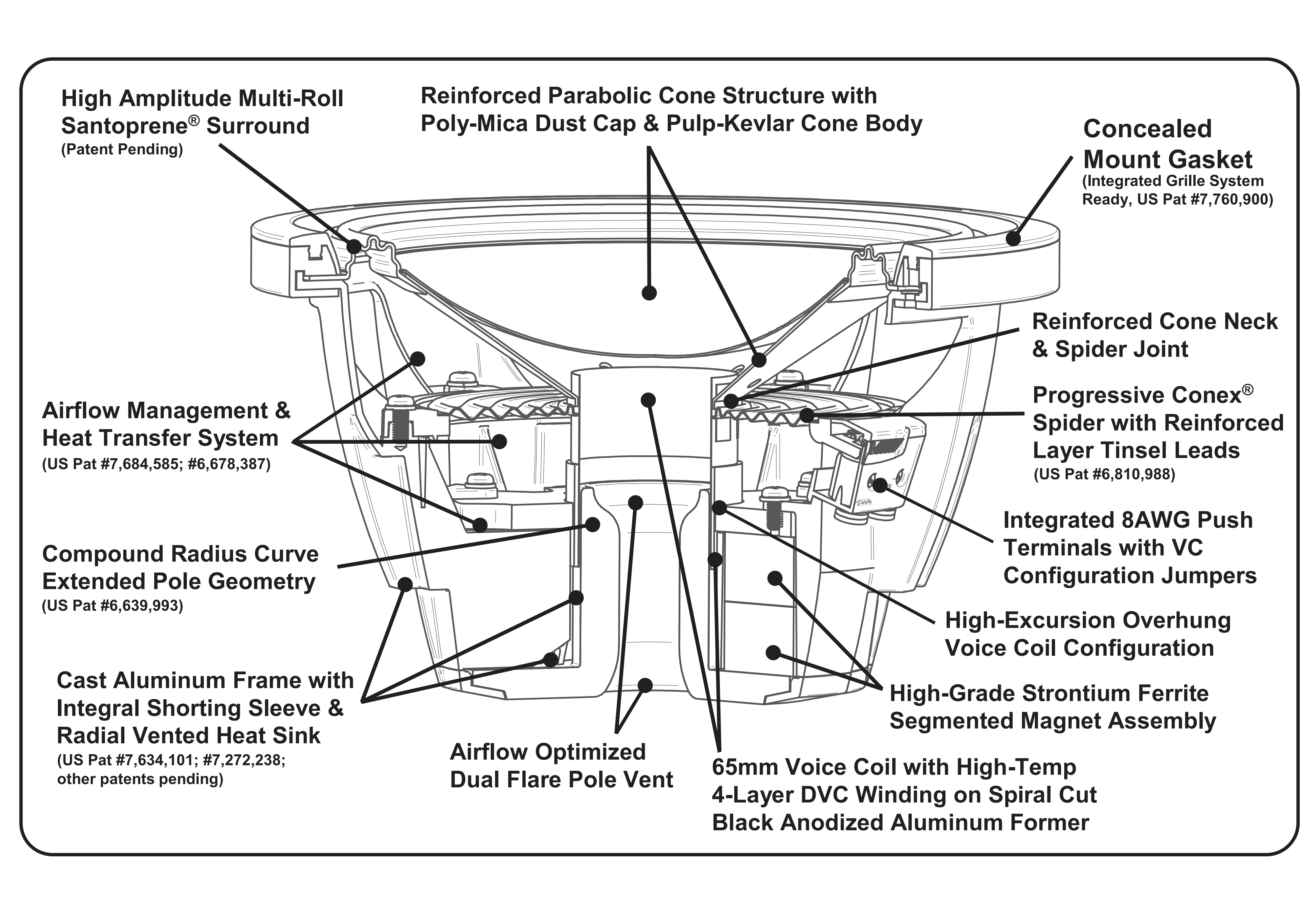
*Based upon 3/4" (19mm) baffle thickness, with opening cut approximately to gasket inner diameter

		SWR-10D2/D4	SWR-12D2/D4
Gamme Box Sealed	Net volume interne	0.4-0.85 pi^3	0.55-1.0 pi^3
recommened Boîte Scellé	Dimensions de la boîte extérieures	12 po x 12 po x 10.5 po	14 po x 14 po x 11 po
	Volume intérieur brut	0.58 pi^3	0.85 pi^3
	Volume intérieur Net ***	0.50 pi^3	0.75 pi^3
	F3, Qtc	D2: 46 Hz, 0.74 D4: 44 Hz, 0.79	D2: 45 Hz, 0.75 D4: 45 Hz, 0.81
Gamme charge bass-reflex	Volume net interne	0.75-1.3 pi^3	1.0-1.5 pi^3
	mise au point	35-39Hz	32-37Hz
recommened charge bass-reflex	Dimensions extérieures	23 po x 12 po x 11.5 po	23 po x 12.5 po x 14 po
	Volume intérieur brut	1.3 pi^3	1.71 pi^3
	Aire de l'évent (dimensions)	10 in^2 (10 po x 1 po)	12.5 in^2 (12.5 po x 1 po)
	Longueur de l'évent	20 po	19 po
	déplacement de l'évent	0.2 pi^3	0.23 pi^3
	Volume intérieur Net (Vb)***	1.0 pi^3	1.38 pi^3
	F_3, crête, F_b	D2: 29Hz, 6.1dB, 36Hz D4: 28Hz, 5.8dB, 36Hz	D2: 29Hz, 4.6dB, 35Hz D4: 29Hz, 4.4dB, 35Hz

Notes:
1) Recommandé enceinte volume net inteme est basée sur 3/4 "(19mm) de construction boîtier en MDF.
2) Consulter le tableau ci-dessous pour le calcul de filet d'enclos altemative volume interne.

Avant le déplacement du Mont * (aimant)	-0.08 ft^3	-0.10 ft^3
Inverser Volume mont Ajouté * (des aimants)	+0.05 ft^3	+0.09 ft^3

* Sur la base de l'épaisseur du déflecteur 3/4" (19mm), avec une ouverture coupée à peu près à joint diamètre intérieur


High Amplitude Multi-Roll Santoprene® Surround
(Patent Pending)
Reinforced Parabolic Cone Structure with Poly-Mica Dust Cap & Pulp-Kevlar Cone Body
Concealed Mount Gasket
(Integrated Grille System Ready, US Pat #7,760,900)
Reinforced Cone Neck & Spider Joint
Progressive Conex® Spider with Reinforced Layer Tinsel Leads
(US Pat #6,810,988)
Airflow Management & Heat Transfer System
(US Pat #7,684,585; #6,678,387)
Integrated 8AWG Push Terminals with VC Configuration Jumpers
Compound Radius Curve Extended Pole Geometry
(US Pat #6,639,993)
High-Excursion Overhung Voice Coil Configuration
High-Grade Strontium Ferrite Segmented Magnet Assembly
Cast Aluminum Frame with Integral Shorting Sleeve & Radial Vented Heat Sink
(US Pat #7,634,101; #7,272,238; other patents pending)
Airflow Optimized Dual Flare Pole Vent
65mm Voice Coil with High-Temp 4-Layer DVC Winding on Spiral Cut Black Anodized Aluminum Former